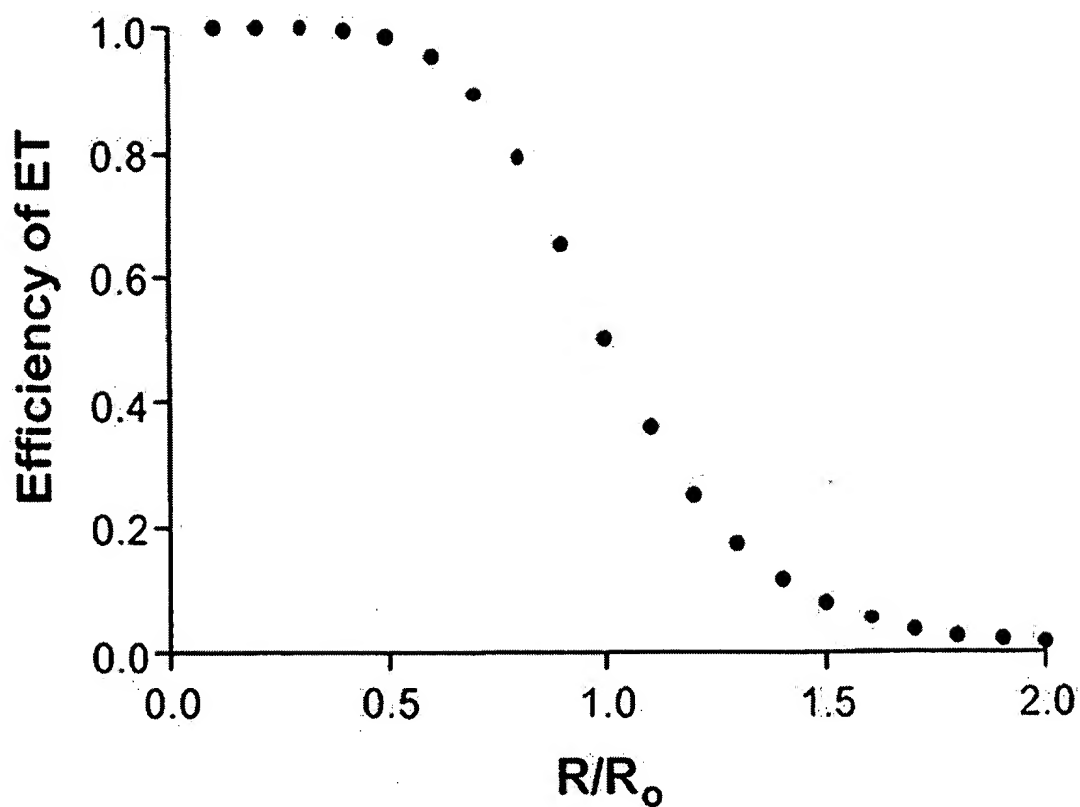


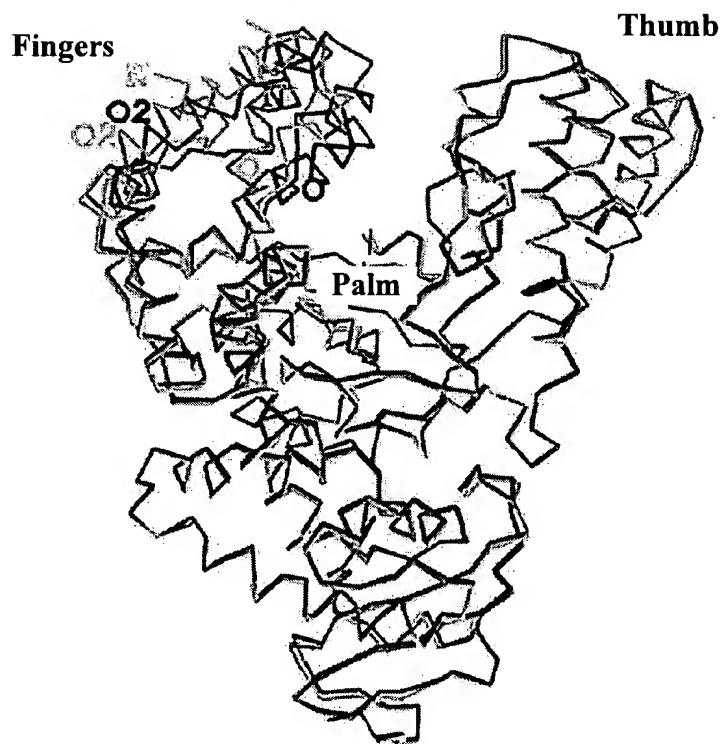


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$$E = R^{-6} / (R^{-6} + R_0^{-6})$$

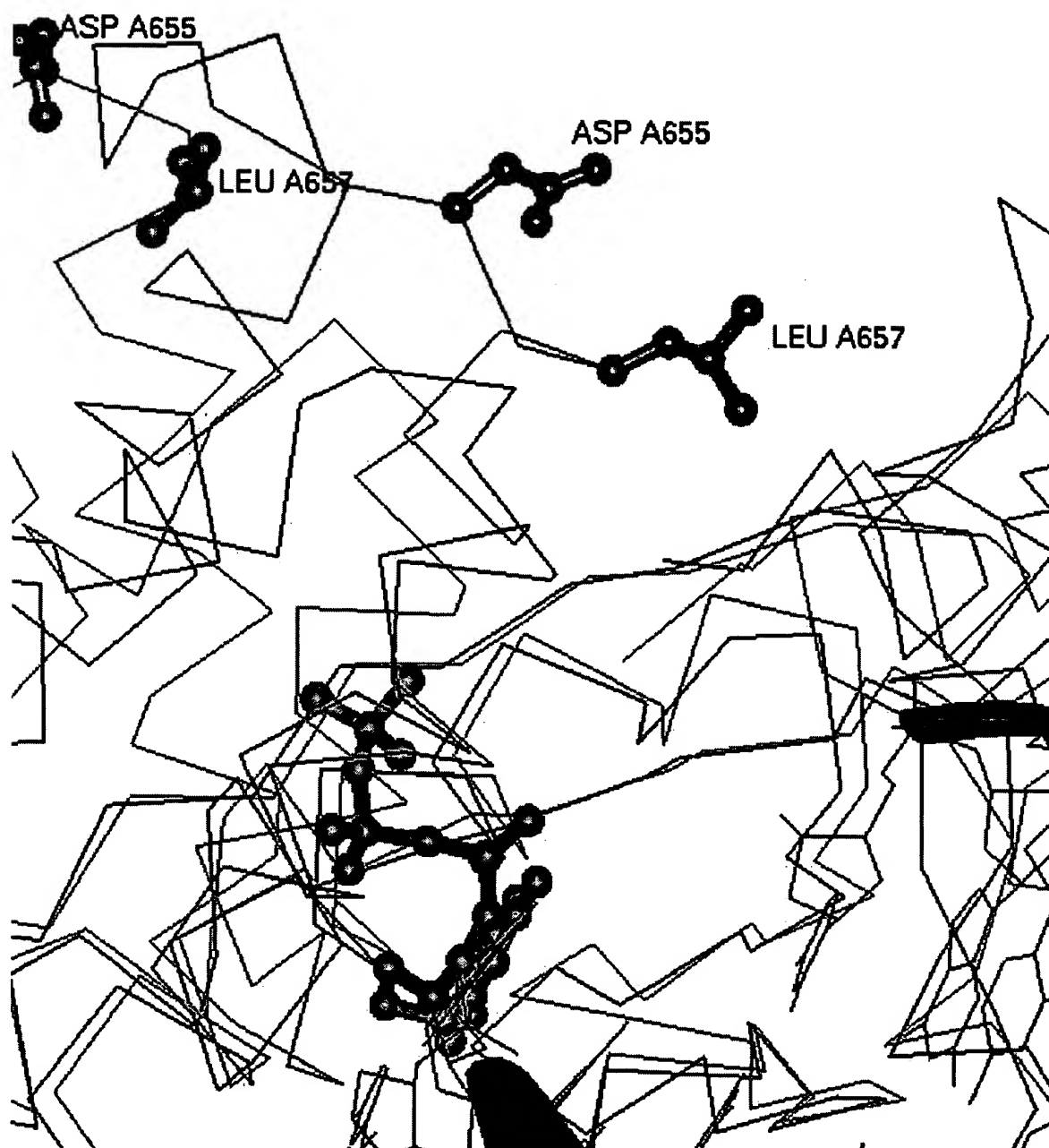


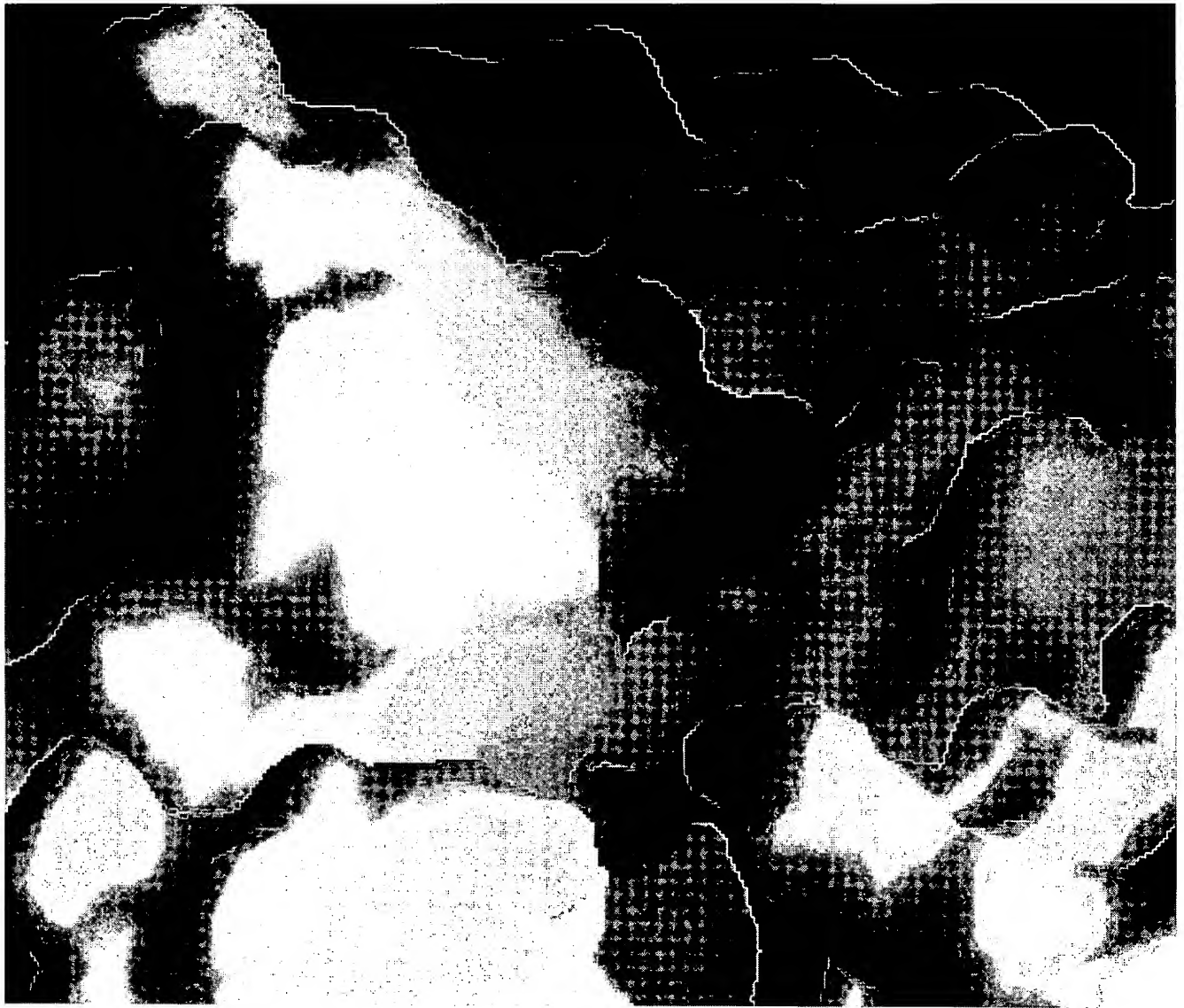
**FIG. 1**



**FIG. 2**

**FIG. 3A**

**FIG. 3B**



**FIG. 3C**



**Primer Strand:**

TOP 5' GGT ACT AAG CGG CCG CAT G 3'

**Template Strands:**

BOT- T 3' CCA TGA TTC GCC GGC GTA CTC 5'

BOT- C 3' CCA TGA TTC GCC GGC GTA CCC 5'

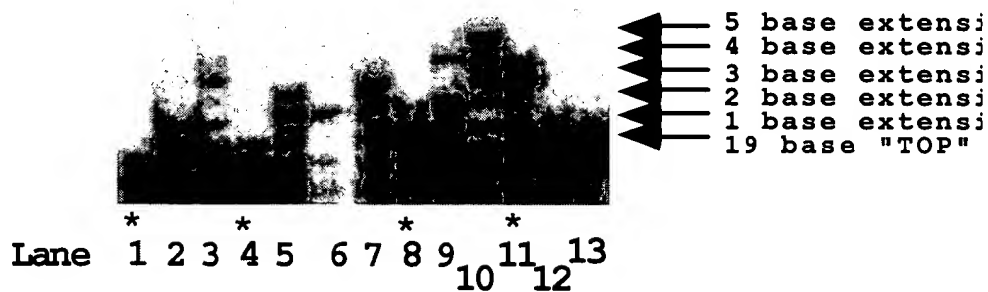
BOT- G 3' CCA TGA TTC GCC GGC GTA CGC 5'

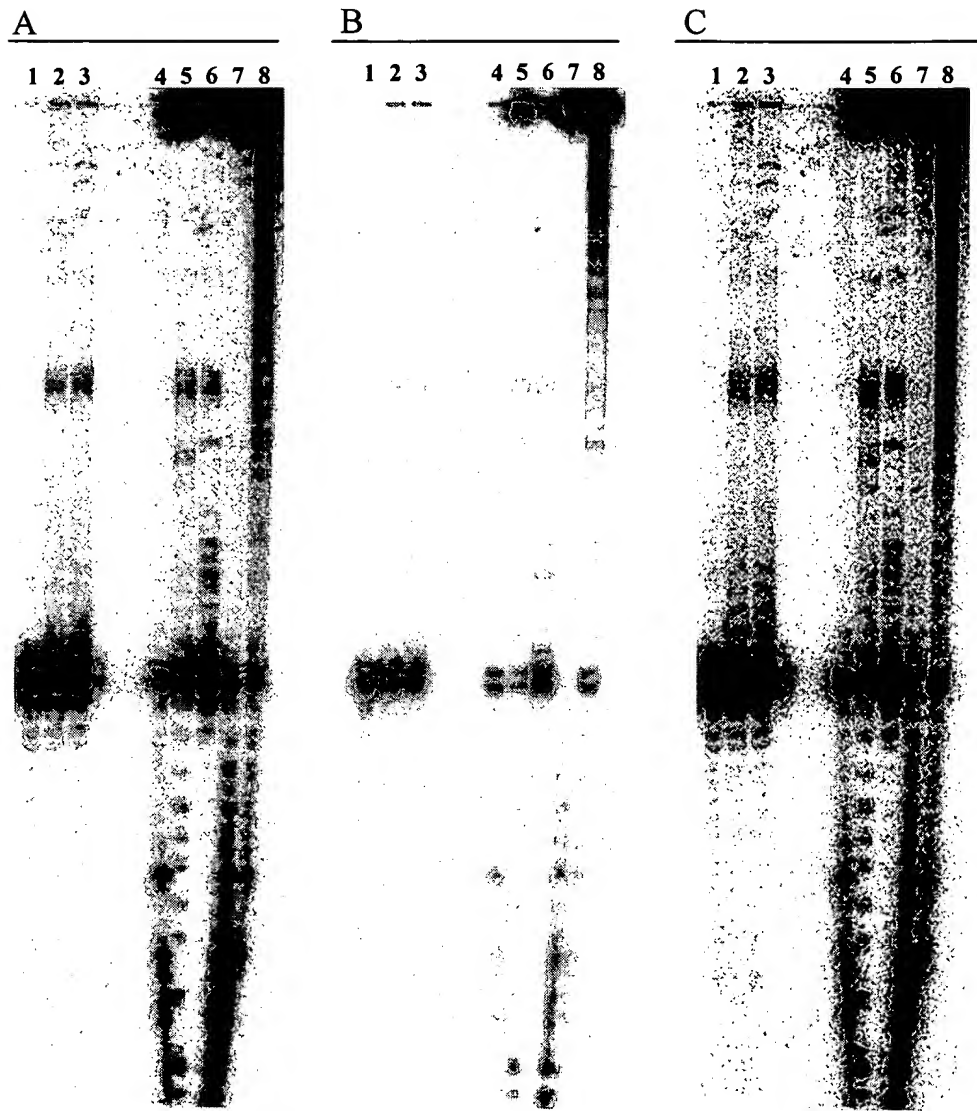
BOT- A 3' CCA TGA TTC GCC GGC GTA CAC 5'

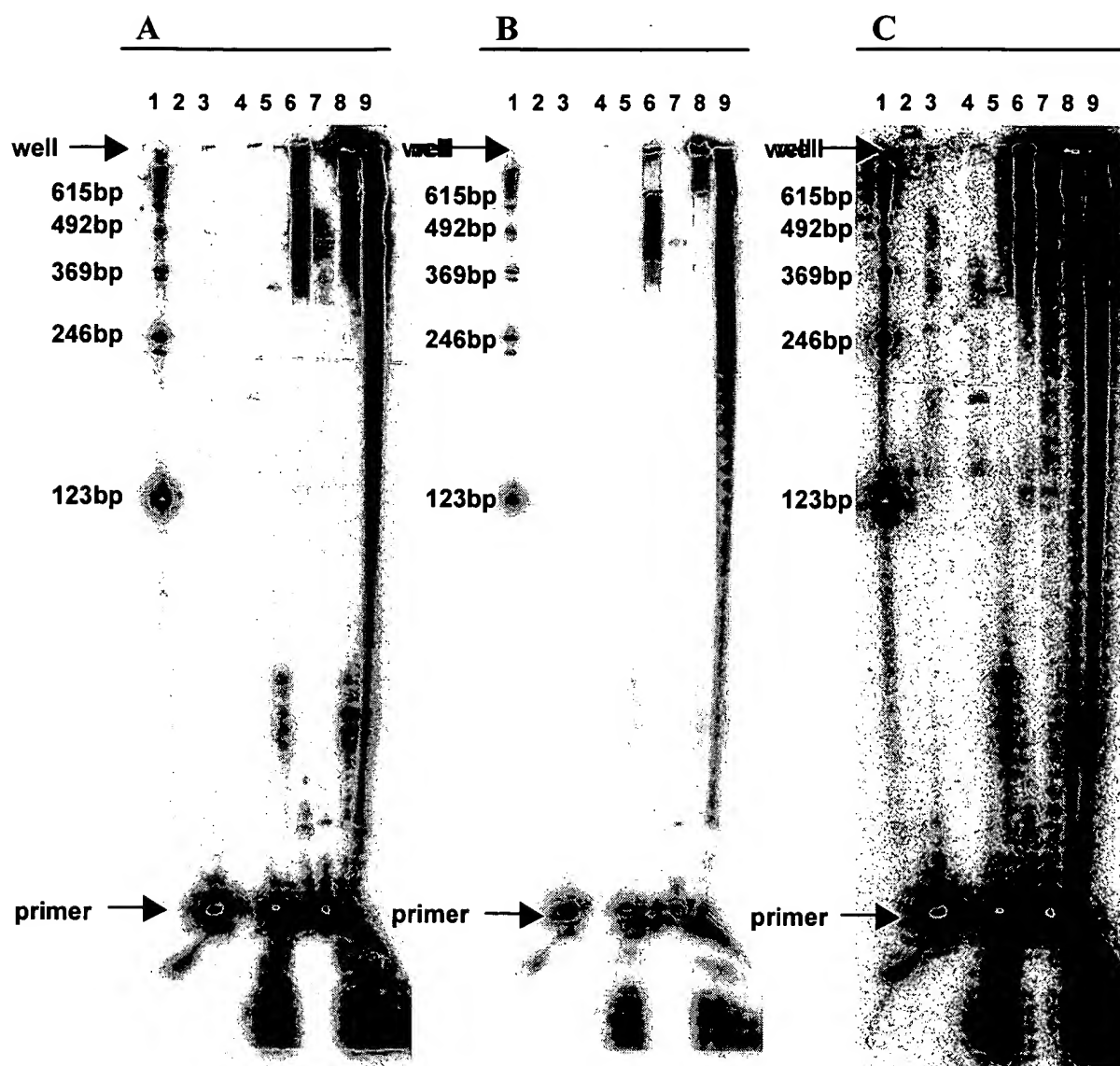
BOT- 3T 3' CCA TGA TTC GCC GGC GTA CTT TC 5'

BOT- Sau 3' CCA TGA TTC GCC GGC GTA CCT AG 5'

Incorporate: GATC AG AAAG  
(5' to 3')

**FIG. 5**

**FIG. 6**

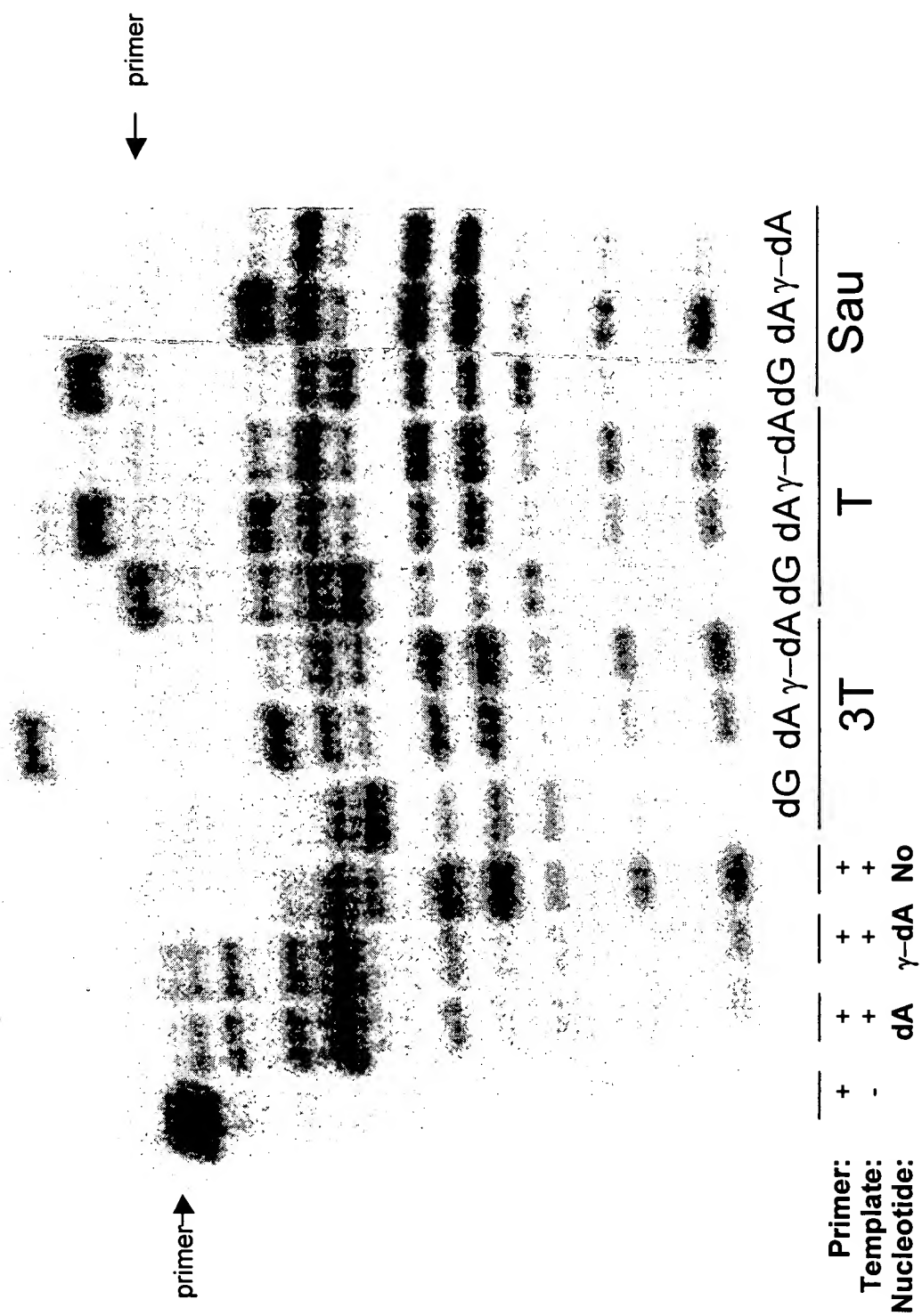
**FIG. 7**

		<u>Klenow</u>									<u>Taq</u>	
Enzyme	-	+	+	+	+	+	+	+	+	+	+	+
Primer (TOP)	+	+	+	+	+	+	+	+	+	+	+	+
Template	-	<u>BOT- 3T</u>			<u>BOT - T</u>			<u>BOT - Sau</u>			<u>BOT- 3T</u>	
Nucleotide	-	dG	dA	$\gamma$ dA	dG	dA	$\gamma$ dA	dG	dA	$\gamma$ dA	dA	$\gamma$ dA

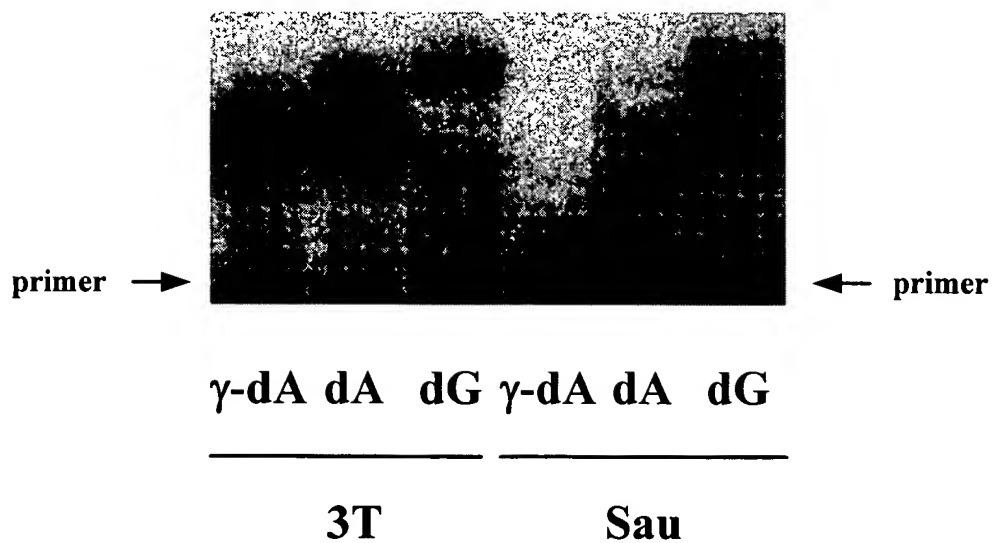


**FIG. 8**

## *Pfu* Primer Extension Assays



- **Primer Strand:**  
 Top            5'   GGT   ACT   AAG   CGG   CCG   CAT   G            3'
- **Template Strands:**  
 3T            3'   CCA   TGA   TTC   GCC   GGC   GTA   CTT   TC   5'  
 Sau           3'   CCA   TGA   TTC   GCC   GGC   GTA   CCT   AG   5'



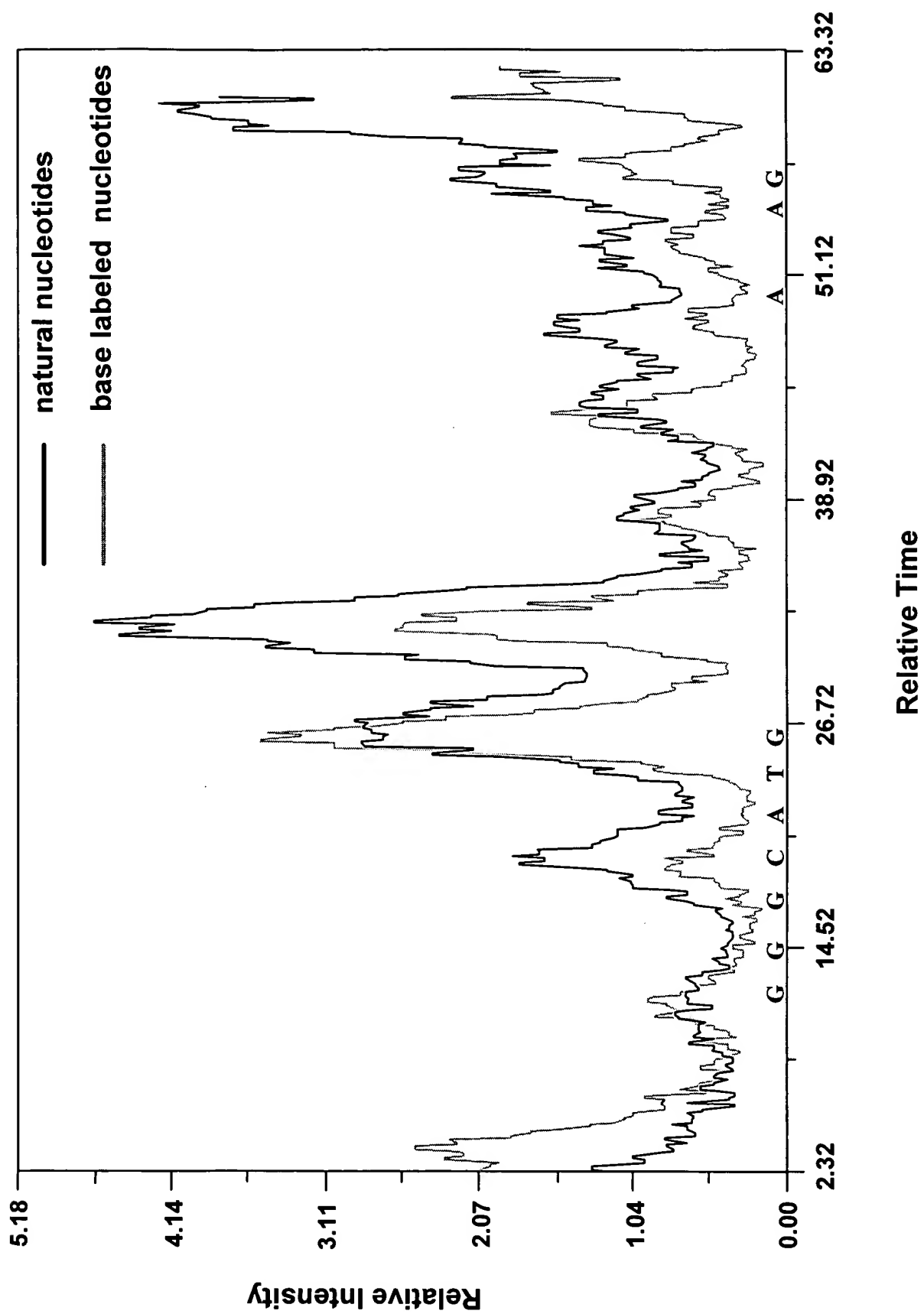
**FIG. 10**

• <b>Primer Strand:</b>											
Top	5'	GGT	ACT	AAG	CGG	CCG	CAT	G			3'
• <b>Template Strands:</b>											
BOT -3T	3'	CCA	TGA	TTC	GCC	GGC	GTA	CTT	TC		5'
BOT - Sau	3'	CCA	TGA	TTC	GCC	GGC	GTA	CCT	AG		5'

Enzyme:	None	T7	T7	Seq	Seq	T7						Sequenase				Taq	
Primer:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Template:	-	+	-	+		BOT - 3T		Sau		BOT - 3T		Sau		BOT - 3T			
Nucleotide:	-	dA	$\gamma$ -dA	dA	$\gamma$ -dA	dG	dA (spill)	$\gamma$ -dA	dG	dA	$\gamma$ -dA	dG	dA	$\gamma$ -dA	dG	dA	$\gamma$ -dA



FIG. 11

**FIG. 12**